

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification to the existing traffic control signal at the intersection of MD 202 and Lottsford Road in Prince George's County, Maryland. MD 202 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection presently operates in a NEMA six (6) phase, full-traffic-actuated mode. There are exclusive/permissive left turn phases for both the north and southbound movements of MD 202. The MD 202 through movements operate concurrently. The Lottsford Road movements operate as a side street split operation.

The intersection phasing is to be modified to a NEMA six (6) phase, full-traffic-actuated mode with an exclusive left turn phase for both the north and southbound movements of MD 202. All other phasing operations will remain unchanged.

The existing cabinet/controller will be utilized.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
2	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic signal head with span wire mounting hardware and tunnel visors.
4	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic signal head with span wire mounting hardware and tunnel visors.
30	SF	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.
* 8	EA	---	4-channel rack mounted loop detector amplifier.
* 2	EA	---	Rack mounted loop detector amplifier power supply.
* 1	EA	---	Rack mounted loop detector amplifier retrofit.

* To be installed by SHA Signal Shop

B. Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

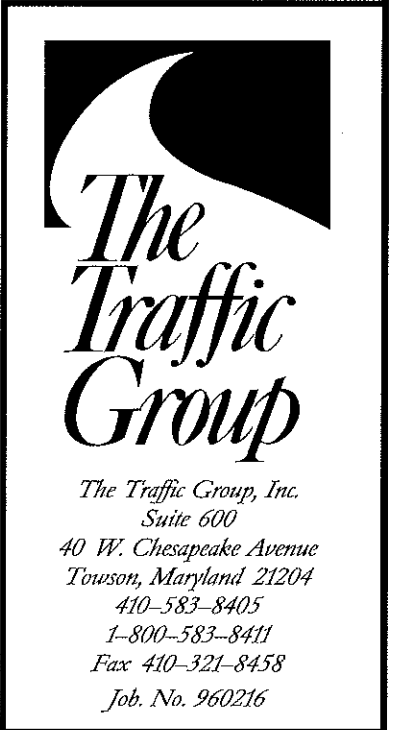
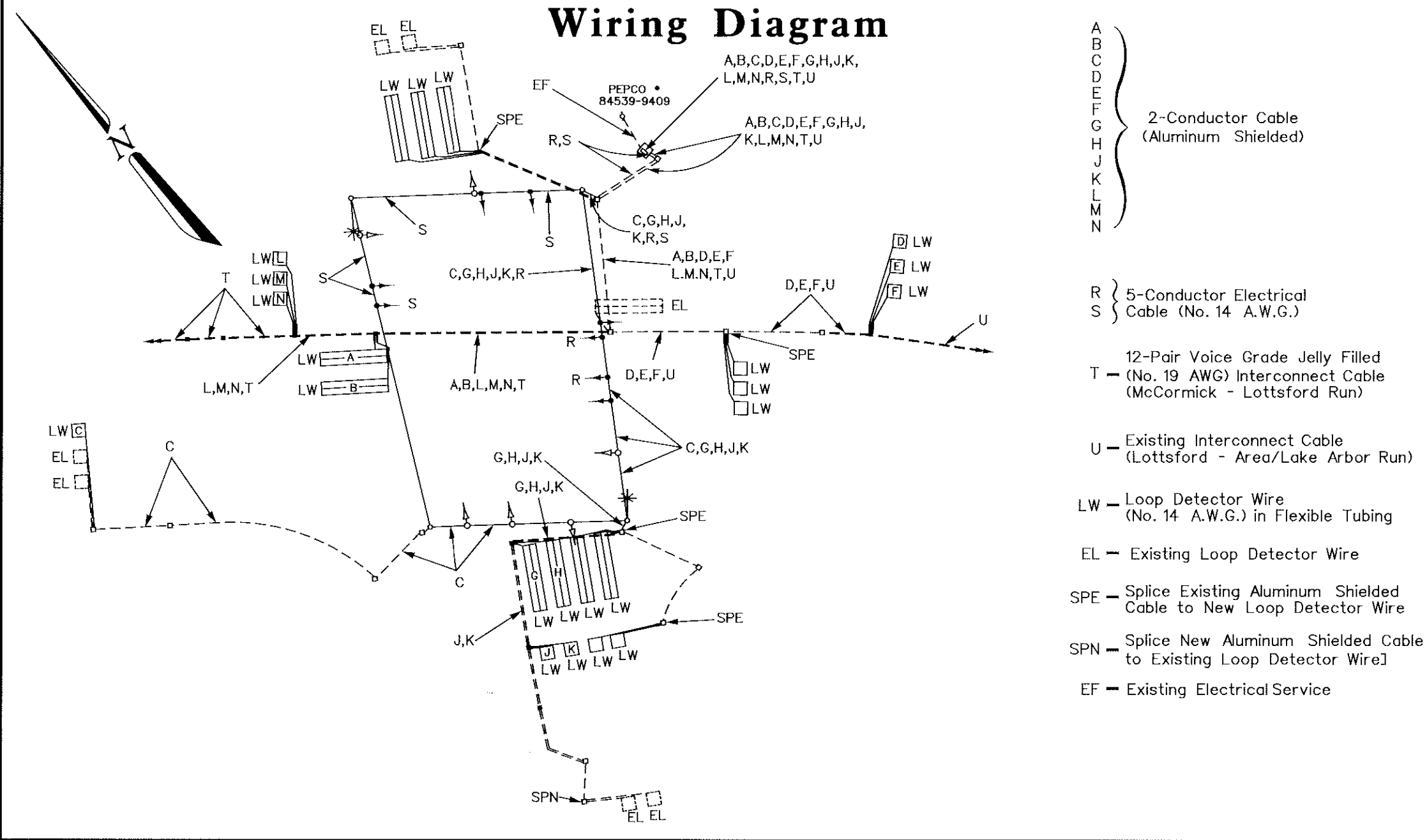
Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
15	EA	811	Handhole.
1740	LF	815	Sawcut for signal loop detector.
6290	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
5290	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
395	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
2500	LF	810	12-pair voice grade jelly filled telemetry interconnect cable (No. 19 A.W.G.).
120	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
60	LF	805	1 in. galvanized steel conduit for loop detector sleeve.
2510	LF	805	2 in. polyvinyl chloride [Schedule 40] electrical conduit - trenched.
100	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
105	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
40	LF	553	12 in. wide HAPPTM pavement marking - white for crosswalk.
110	LF	553	24 in. wide HAPPTM pavement marking - white for stop line.
2	EA	814	Relocate existing traffic signal head.
7.5	SF	813	Relocate existing overhead mounted sign.
Lump Sum	LS	---	Relocate existing interconnect cable.
Lump Sum	LS	---	Removal of existing traffic signal equipment.
2	EA	---	Loop detector splice.
Lump Sum	LS	---	As-built for S.H.A. (on CADD)

FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Phase 1 & 5	←G→	←G→	R	R	←G→	←G→	R	R	R	R	R	R	R	R
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5														
Phase 1 & 6	←G→	←G→	G	G	←R→	←R→	R	R	R	R	R	R	R	R
1 Change	←Y→	←Y→	G	G	←R→	←R→	R	R	R	R	R	R	R	R
Phase 2 & 5	←R→	←R→	R	R	←G→	←G→	G	G	R	R	R	R	R	R
5 Change	←R→	←R→	R	R	←Y→	←Y→	G	G	R	R	R	R	R	R
Phase 2 & 6	←R→	←R→	G	G	←R→	←R→	G	G	R	R	R	R	R	R
2 & 6 Change	←R→	←R→	Y	Y	←R→	←R→	Y	Y	R	R	R	R	R	R
Phase 3	←R→	←R→	R	R	←R→	←R→	R	R	←G→	←G→	G	R	R	R
3 Change	←R→	←R→	R	R	←R→	←R→	R	R	Y	Y	Y	R	R	R
Phase 4	←R→	←R→	R	R	←R→	←R→	R	R	R	R	←G→	←G→	G	
4 Change	←R→	←R→	R	R	←R→	←R→	R	R	R	R	Y	Y	Y	
Flashing Operation	←FL/R	←FL/R	FL/Y	FL/Y	←FL/R	←FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

Wiring Diagram



MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: J. Dirndorfer
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CHK. BY:

(General Information)

MD 202 at Lottsford Road

DATE: June 12, 1997
SCALE: N/A

F.A.P. NO. N/A
S.H.A. NO. BWIO2M83

TS/STD. NO. 2548B-GI

SHEET NO. 2 of 2